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law applies in geotropism as in various tropic responses. Giltay devised a special centrifuge with a vertical axis for testing this point. He finds that with the average of 368 tests, with the angle of the resultant approximating 45°, the primary root fell 2.1° below the resultant. This deviation can well be accounted for by the variation in speed of rotation and the variation of roots themselves. This seems to furnish evidence for the identity in nature of the geotropic and centrifugal stimuli.—William Crocker.

Rôle of hydrocyanic acid.—Treub9 has found that the amount of hydrocyanic acid in plants of Sorghum increases during the day, not due to the direct action of light, but in proportion to the formation of the products of the assimilation of carbon. It was already known, from investigations with Pangium edule and Phaseolus lunatus, that light has no part in the formation of hydrocyanic acid except as it favors photosynthesis. Much the same results have been obtained with Prunus javanica. Passiflora foetida and at least four other plants offer examples for the demonstration of the direct proportion between the formation of hydrocyanic acid and the function of chlorophyll. This can be demonstrated also by the use of variegated leaves. The amount of acid is usually greatest in the young leaves and gradually diminishes as the leaves grow older. With Sorghum, young leaves grown in a dry season or on dry soil contain much acid, and for this reason are dangerous as food for stock. Leaves about to fall contain very little acid, while, with only two exceptions, those already fallen contain none. GUIGNARD found that fallen leaves of Sambucus nigra contain much of the acid. TREUB confirms these results and finds the same to be true of fallen leaves of Indigofera galegoides. The hydrocyanic acid is probably the first recognizable simple organic product of the assimilation of nitrogen, and perhaps the first organic nitrogen compound formed. The amounts of the acid in plants watered with a solution of sodium and potassium nitrate increased or decreased in proportion to the amount of nitrate used. RAVENNA and PELI think that nitrates and carbohydrates are necessary to the formation of the acid. Treub agrees with these conclusions, and adds that dextrose is especially essential. acid probably does not occur in plants as such, but in the form of a glucoside from which it can be liberated by an enzyme or by boiling water.—R. CATLIN ROSE.

Parasitic flagellates in plants.—Although rapid progress in the study of parasitic flagellates has shown them to be of widespread occurrence in animal organisms, the discovery of these parasites in plants is a noteworthy fact. The occurrence of a trypanosome-like parasite in the latex of *Euphorbia pilulijera* in Mauritius was first reported by LAFONT. To The discovery was soon afterward

⁹ Treub, M., Nouvelles recherches sur le rôle de l'acide cyanhydrique dans les plantes vertes. Ann. Jard. Bot. Buitenzorg II. 8:84–118. 1910.

¹⁰ Lafont, A., Sur la présence d'un parasite de la classe des Flagellés dans le latex de *l'Euphorbia pilulifera*. Compt. Rend. Soc. Biol. **66:**1011–1013. 1909.